

Name: _____

Date: _____

Weekend Word Problem #6 : Locker Logic



The Situation: A high school has a strange principal. On the first day, he has his students perform an odd opening day ceremony: There are one hundred lockers and one hundred students in the school. The principal asks the first student to go to every locker and open it. Then he has the second student go to every second locker and close it. The third goes to every third locker and, if it is closed, he opens it, and if it is open, he closes it. The fourth student does this to every fourth locker, and so on. After the process is completed with the hundredth student, how many lockers are open?

The Solving: Please solve this problem in any way you choose.

Note: *This is NOT a Systems of Linear Equations Word Problem!!*

SHOW ANY WORK, DIAGRAMS, PICTURES, CHARTS HERE!!

TURN PAPER OVER!!!!

The Sentences: In at least THREE complete sentences, explain your problem-solving process. Include any struggles, joys, breakthroughs, challenges, etc. Be as specific as possible.

If you were unable to solve the problem, you must still write about your attempts to solve it. What did you try to do? What does this problem remind you of?

[illegible]